QUICK INSTALLATION GUIDE

WIRELESS N300 / N150 ROUTER

MAKING CONNECTIONS easy

N300 Series
ENHWI-2AN4x
(with 2 antennas)

N150 Series
ENHWI-1AN4x
(with 1 antenna)

Note:
The lowercase "x" in the model number represents the antenna type. At the time when this manual was written, Encore offers 2 different types of antenna for Wireless N Router: 2dBi and 5dBi. The antenna shown on the cover is 2dBi. The 5dBi antenna is longer.

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Chapter 1: Introduction

The ENHWI-1AN4x Wireless N150 Router / ENHWI-2AN4x Wireless N300 Router complies with IEEE 802.11n, and provides faster and farther range than 802.11g while being backward compatible with 802.11g and 802.11b mode. This router uses advanced broadband router chipset and wireless LAN chipset solution to let you enjoy high-speed Wired and Wireless connection. Simply connect this device to a Cable or DSL modem and then you can share your high-speed Internet access with multiple PCs at your home with or without wires. It creates a secure Wired and Wireless network for you to share photos, files, video, music, printer and network storage. ENHWI-1AN4x / ENHWI-2AN4x provides maximum transfer rate up to 150Mbps and supports WEP, WPA, WPA2, 802.1x high-level WLAN security features that guarantee the best security for users.

1.1 Package Contents

- Wireless N300 Router or Wireless N150 Router x1
- External Antenna x2 (for the N300 Series)
  X1 (for the N150 Series)
- External Power Adapter x1
- Setup CD (User Manual in the CD) x1
- RJ-45 Ethernet Cable x1

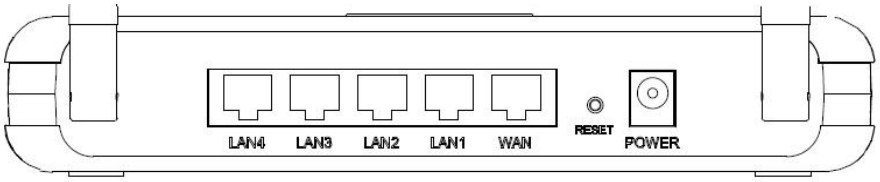
1.2 System Requirements

- Active broadband connection with cable/DSL modem
- 10/100 Ethernet cables with RJ-45 connector
- Ethernet or wireless enabled computers
- TCP/IP protocol must be installed on the connecting computers
- Web browser: Internet Explorer 7 or later, or Mozilla Firefox 3 or later

1.3 Front Panel and LED Indicators

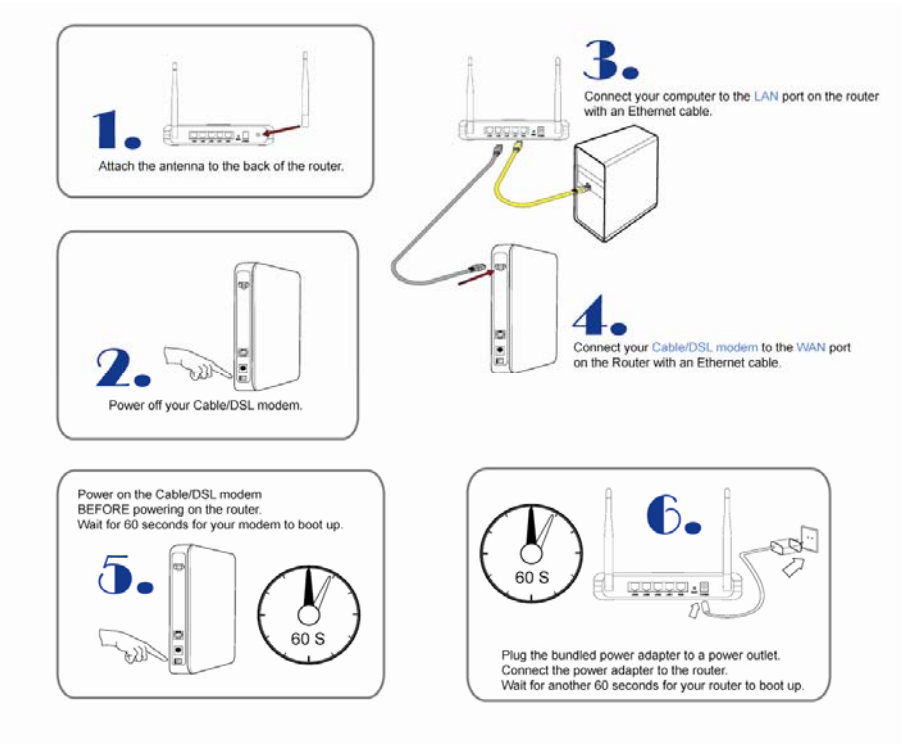
LED	Status	Description
POWER	On	The router power is on.
	Off	The router power is off.
SYSTEM	On	The router is starting the system.
	Slow Blinking	The router system is ready to work.
WAN	On	WAN port is successfully connected
	Blinking	The router is sending or receiving data through the WAN (usually is your cable/DSL modem).
WLAN	Slow Blinking	Wireless network is ready.
	Blinking	The router is sending or receiving data over the wireless network.
LAN (1/2/3/4)	On	LAN port is successfully connected.
	Blinking	The router is sending or receiving data over the wired network.
WPS	On	The WPS LED keeps on for around 8 seconds while the system is starting.
	Off	The WPS PBC/PIN function is not running.
	Slow Blinking	The WPS PBC function is running and last for 2 minutes after pressing and holding the WPS button for 3 or more seconds.

1.4 Back Panel and Connectors



Port / Button	Description
Antenna	Attach the external antenna(s) with R-SMA connector here. (The N300 Series has two antenna connectors, while the N150 Series only has one.)
Reset	The Reset button will restore your router to the default setting. Press and hold the button for 6 seconds to enable the reset function. Note: Before using the reset button, you should try two things: 1. Disconnect and power off both your modem and router. Wait for 30 seconds and turn on your modem FIRST. Wait for another 60 seconds for your modem to boot up. LAST, connect the modem back to the router and turn on the router. Wait for another 60 seconds for the router to boot up. RESTART your web browser to see if you can access the Internet now. 2. If the first solution does not work, restart your computer and open your web browser again. If the above-mentioned two solutions and the reset function cannot solve your problem, contact your Internet service provider to see if there is a problem with you modem or Internet service.
LAN (1/2/3/4)	Connect the 10/100 Ethernet Cable with RJ-45 connector here. Most networking devices should connect to the LAN port, such as computer, NAS, IP camera, print server, switch, and access point.
WAN	Connect the 10/100 Ethernet Cable with RJ-45 connector here. Only connect a Wide Area Network (WAN) device to this port, such as a Cable/DSL modem.
POWER	Connect the bundled DC 12V power adapter here.

Chapter 2: Connecting Your Router


1.
Attach the antenna to the back of the router.
2.
Power off your Cable/DSL modem.
3.
Connect your computer to the LAN port on the router with an Ethernet cable.
4.
Connect your Cable/DSL modem to the WAN port on the Router with an Ethernet cable.
Power on the Cable/DSL modem BEFORE powering on the router. Wait for 60 seconds for your modem to boot up.
5.
60 S
6.
60 S
Plug the bundled power adapter to a power outlet. Connect the power adapter to the router. Wait for another 60 seconds for your router to boot up.

1. Attach the antenna to the back of the router.
2. Power off your Cable/DSL modem.
3. Connect your computer to the LAN port on the router with an Ethernet cable.
4. Connect your Cable/DSL modem to the WAN port on the Router with an Ethernet cable.
5. Power on the Cable/DSL modem, BEFORE powering on the router. Wait for 60 seconds for your modem to boot up.
6. Plug the bundled power adapter to a power outlet. Connect the power adapter to the router. Wait for another 60 seconds for your router to boot up.

7. Check the LED lights (see Page 3 for more details).
8. The LAN lights should be on for each active LAN connection.
9. The WAN lights should be on when the Cable/DSL modem is connected.

Chapter 3: Configuring Your Router

3.1 Accessing the Web-Based Configuration Utility

Screenshot of the Web-Based Configuration Utility

For the initial configuration, we recommend you connecting your computer to the LAN port with an Ethernet cable. If this cannot be done, you have to connect to the router wirelessly.

Before configuring your router through wireless network, make sure that **SSID**, **Channel** and **Security** are set properly. The default setting of the WLAN Router that you will use:

- SSID: default
- Channel: 11
- 802.11 Mode: 802.11b/g/n mixed mode
- Channel bandwidth: 20/40MHz
- Security: Disable

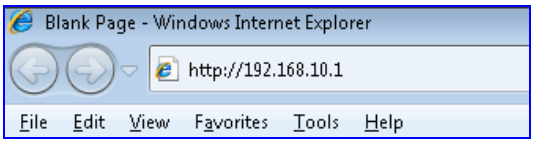
Note:

Before you configure the router, make sure the host PC is set on the IP subnet that can be accessed by your cable/DSL modem. For example, when the default network address of the cable/DSL modem is 192.168.10.x, then the host PC should be set at 192.168.10.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

You need a web browser to access the web-based configuration utility.

1. Open a web browser.
2. Type in the following URL to the address bar:

http://192.168.10.1



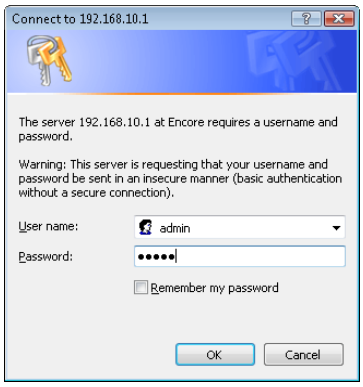
sample screenshot from Internet Explore.

3. The web browser will ask you for User Name and Password. The default access information is as follows:

   User Name: **admin**

   Password: **admin**

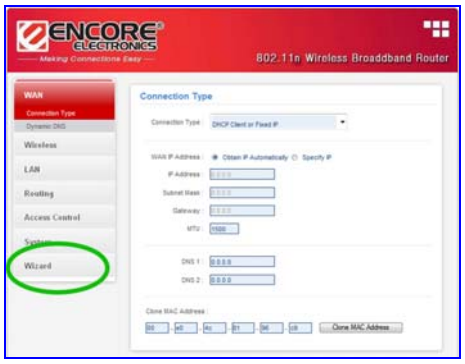
   The login window varies among web browsers. Below is an example from Internet Explore


Connect to 192.168.10.1
The server 192.168.10.1 at Encore requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
admin
Password:
Remember my password
OK
Cancel

3.2 Encore Setup Wizard

Encore Setup Wizard helps you to configure the router quickly. Simply follow the step-by-step instructions

A.



To access the **Setup Wizard**, click on "***Wizard***" at the bottom of the function menu.

B.

This is the **Setup Wizard** overview page.

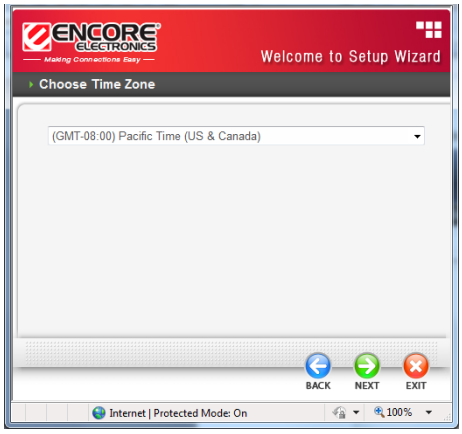
Click "***Next***" to continue.

C.

Create your own administrative password for the router in this page.

Click "***Next***" to continue.

D.



Choose your time zone.

Click "***Next***" to continue.

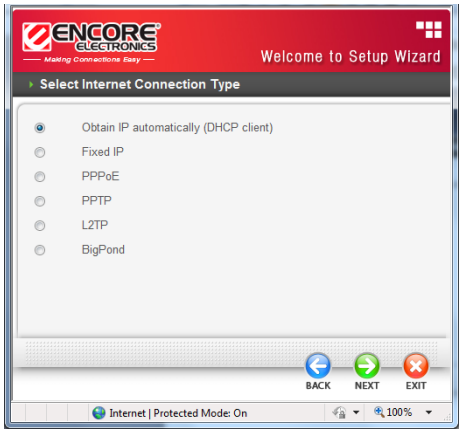
E.

Most of the time, you can leave the **DHCP Server** "***Enabled***" and skip this page

If your MODEM has router function built-in and enabled, you need to check "***Disabled***" for ***DHCP Server***.

Click "***Next***" to continue.

F.



Most of the time, you just need to click "***Next***" to continue.

The **Setup Wizard** will attempt to detect your Internet connection type automatically (one of the six options). You can also manually select the connection type.

Based on the connection type, the following pages (not shown here) will request different account information. Just follow the on-screen instructions. For more details, please refer to Chapter 4.1.1: Connection Type.

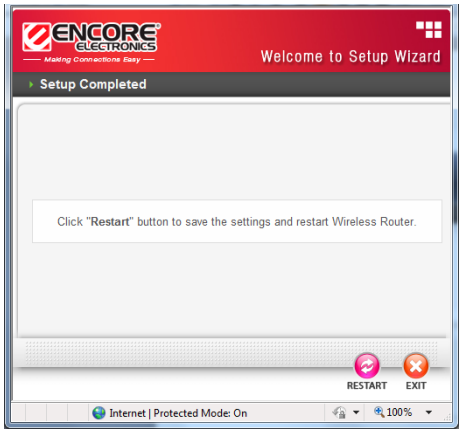
G.

Click "***Enable***" to enable **Wireless** LAN.

If **Wireless** is enabled, you need to enter the name of your wireless network in the **SSID** text box and select a radio **channel** in the dropdown menu.

Any networking device wishes to connect to your router needs to use the same **SSID** and **channel**.

H.



The Setup Wizard is now completed. The new settings will be effective AFTER the router reboots.

Click "***Restart***" to reboot the router. If you do not want to make any changes, click "***Exit***."

Chapter 4: Advanced Configuration

4.1 WAN (Wide Area Network)

This section enables users to set up the Wide Area Network (WAN) connection: specifying the WAN IP address, adding DNS numbers, and entering the MAC address.

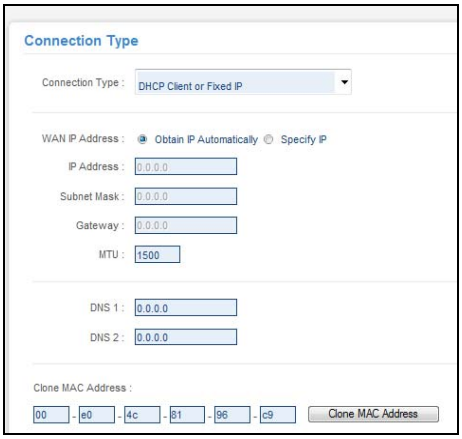
4.1.1 Connection Type

There are five connection types to choose:

- DHCP Client or Fixed IP
- PPPoE
- PPTP
- L2TP
- BigPond Cable

A. DHCP Client or Fixed IP

If user has the DHCP server enabled, choose "Obtain IP automatically (DHCP client)" to have the router assign IP addresses automatically.



WAN IP Address

Select whether you want the router to "***Obtain IP Automatically***" or manually input **Fixed IP** by checking "***Specify IP***."

IP Address

Under the "***Specify IP***" mode, enter the information provided by your ISP.

Subnet Mask

Under the "***Specify IP***" mode, enter the information provided by your ISP.

Gateway

Under the "***Specify IP***" mode, enter the information provided by your ISP.

DNS 1/2

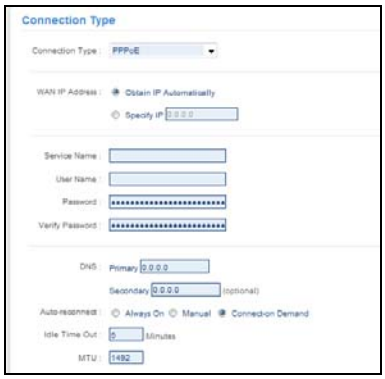
Under the "***Obtain IP Automatically***" mode, the DHCP server will provide DNS server IP automatically if this field is 0.0.0.0.
Under the "***Specify IP***" mode, manually enter the DNS server IP address.

Clone MAC Address

If your ISP requires you to enter a specific MAC address, please enter it here. The "***Clone MAC Address***" button is used to copy the MAC address of your Ethernet adapter to the Router.

B. PPPoE

If connecting to the Internet using a PPPoE (Dial-up xDSL) Modem, the ISP (Internet Service Provider) will provide a Password and User Name. Choose this option and enter the required information.



WAN IP Address

Select whether you want the router to "***Obtain IP Automatically***" or manually input **Fixed IP** by checking "***Specify IP***."

Server Name

Enter the information provided by your ISP (optional).

User Name

Enter the information provided by your ISP.

Password

Enter the information provided by your ISP.

Retype Password

Enter the password again.

DNS

Under the "***Obtain IP Automatically***" mode, the DHCP server will provide DNS server IP automatically if this field is 0.0.0.0.
Under the "***Specify IP***" mode, manually enter the DNS server IP address.

Auto-Reconnect

Three options are available: **Always-on**, **Manual** or **Connect-on Demand**.

Idle Time Out

Enter the idle time out for "***Connect-on Demand***," when no Internet access during the idle time, the PPPoE connection will auto disconnect.

MTU

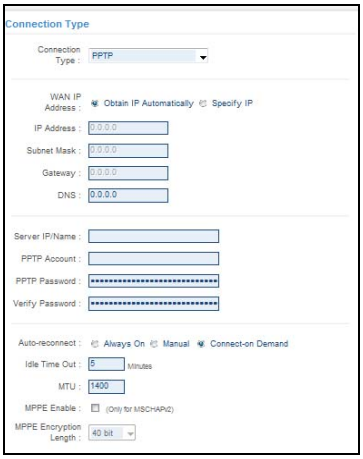
Enter the specified MTU (Maximum Transmission Unit). The default value is 1492 bytes.

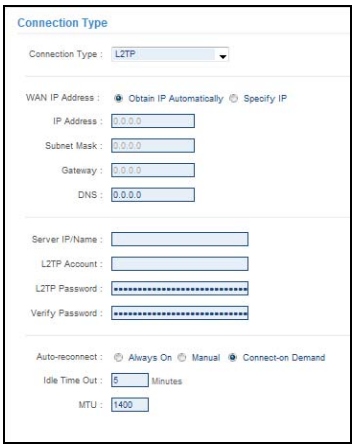
C. PPTP/L2TP with Dynamic IP (Obtain IP Automatically)

If connecting to the Internet using a PPTP/L2TP (Dial-up xDSL) protocol with **Dynamic IP**, check "**Obtain IP Automatically.**"

You need to enter the following information provided by your ISP: Server IP/Name, PPTP/L2TP Account, and PPTP/L2TP Password.

If your ISP has provided you a DNS IP address, enter it in the "**DNS**" field. Otherwise, leave it as "0.0.0.0."

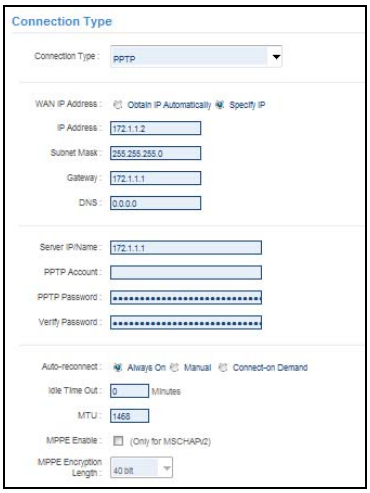

Connection Type
Connection Type : PPTP
WAN IP Address : Obtain IP Automatically Specify IP
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Gateway : 0.0.0.0
DNS : 0.0.0.0
Server IP/Name :
PPTP Account :
PPTP Password :
Verify Password :
Auto-reconnect : Always On Manual Connect-on Demand
Idle Time Out : 5 Minutes
MTU : 1400
MPPE Enable : (Only for MSCHAPv2)
MPPE Encryption Length : 40 bit

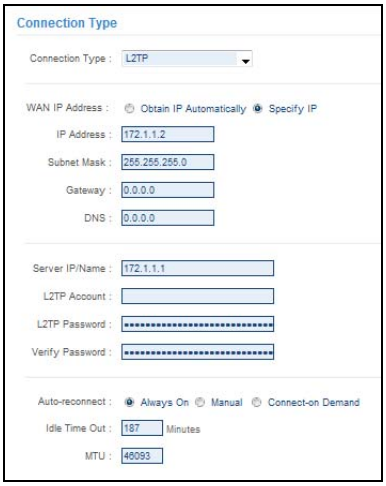

Connection Type
Connection Type : L2TP
WAN IP Address : Obtain IP Automatically Specify IP
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Gateway : 0.0.0.0
DNS : 0.0.0.0
Server IP/Name :
L2TP Account :
L2TP Password :
Verify Password :
Auto-reconnect : Always On Manual Connect-on Demand
Idle Time Out : 5 Minutes
MTU : 1400

D. PPTP/L2TP with Static IP (Specify IP)

If connected to the Internet using a PPTP/L2TP (Dial-up xDSL) with **static IP** connection, check "**Specify IP**."

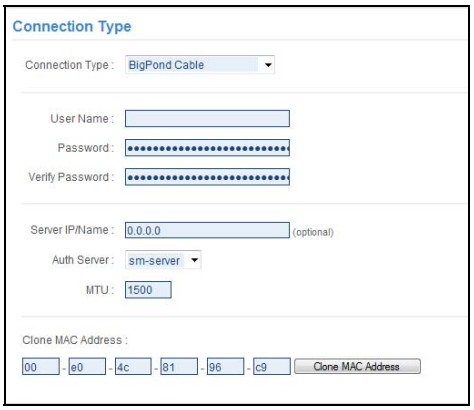
You need to enter the following information: IP Address, Subnet Mask, Gateway IP address, DNS IP address, Server IP/Name, PPTP/L2TP Account, and PPTP/L2TP Password.


Connection Type
Connection Type : PPTP
WAN IP Address : Obtain IP Automatically Specify IP
IP Address : 172.1.1.2
Subnet Mask : 255.255.255.0
Gateway : 172.1.1.1
DNS : 0.0.0.0
Server IP/Name : 172.1.1.1
PPTP Account :
PPTP Password :
Verify Password :
Auto-reconnect : Always On Manual Connect-on Demand
Idle Time Out : 0 Minutes
MTU : 1468
MPPE Enable : (Only for MSCHAPv2)
MPPE Encryption Length : 40 bit


Connection Type
Connection Type : L2TP
WAN IP Address : Obtain IP Automatically Specify IP
IP Address : 172.1.1.2
Subnet Mask : 255.255.255.0
Gateway : 0.0.0.0
DNS : 0.0.0.0
Server IP/Name : 172.1.1.1
L2TP Account :
L2TP Password :
Verify Password :
Auto-reconnect : Always On Manual Connect-on Demand
Idle Time Out : 187 Minutes
MTU : 46093

E. BigPond Cable

If your ISP is Big Pond Cable, the ISP will provide you a User Name, Password, Authentication Server, and Login Server IP (Optional). Choose this option and enter the required information.


Connection Type
Connection Type : BigPond Cable
User Name :
Password :
Verify Password :
Server IP/Name : 0.0.0.0 (optional)
Auth Server : sm-server
MTU : 1500
Clone MAC Address :
00 - e0 - 4c - 81 - 96 - c9
Clone MAC Address

4.1.2 Start to use the Internet connection

After above configuration has been done, you could now open browser software, type in the web URL addresses of your favorite sites and enjoy the web browsing and surfing on the Internet. More but not limited to that, you could also enjoy on line shopping, gaming, music listening, video viewing, and so on.

4.1.3 Technical Support

For more detailed product information or configuration, please check the user manual in the CD-ROM came with the product.

For technical support related issues or more helps needed, please check the Support section on our web site http://www.encore-usa.com .

MAKING CONNECTIONS easy

Our local tech support specialists are ready to help 24/7.

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